AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. **(currently amended)** A compressor, which is cooled by a cooling medium, comprising:

a compression chamber in which gas is compressed and then discharged therefrom;

a first cooling chamber, in which the cooling medium flows, provided so as to adjoin the compression chamber for cooling the gas in the compression chamber and to surround a discharge port for cooling the gas flowing therethrough; and

a second cooling chamber adjoining the first cooling chamber, the second cooling chamber having a gas passage in which the discharged gas flows and a medium passage in which the cooling medium flows, the medium passage being arranged so as to restrain transmission of heat [[of]] from the discharged gas in the gas passage to the cooling medium in the first cooling chamber,

wherein the first cooling chamber is located between the medium passage and the compression chamber, and the cooling medium flows into the first cooling chamber and the medium passage.

2. **(original)** The compressor according to claim 1, wherein the cooling medium is flowed from the first cooling chamber to the medium passage.

3. **(original)** The compressor according to claim 2, wherein the medium passage is arranged in such a manner that the gas passage does not adjoin the first cooling chamber.

4. **(original)** The compressor according to claim 2, wherein the medium passage is arranged in such a manner that the gas passage partially adjoins the first cooling chamber.

5. **(original)** The compressor according to claim 2, further comprising an electric motor arranged in the compressor and a motor cooling member that covers the electric motor for cooling the electric motor, power for driving the compressor thereby to compress the gas in the compression chamber being supplied by the electric motor provided in the compressor, the cooling medium, which has flowed through the motor cooling member, being flowed into the first cooling chamber and the medium passage.

6. **(original)** The compressor according to claim 5, wherein the motor cooling member is a water jacket.

7. **(original)** The compressor according to claim 2, wherein the compressor compresses gas which is supplied to a fuel cell.

8. **(original)** The compressor according to claim 2, wherein the medium passage includes a plurality of branched tubes through which the cooling medium flows, the gas passage being provided by space outside the tubes in the second cooling chamber, a fin being arranged in the gas passage.

9. **(original)** The compressor according to claim 8, wherein each tube is flat in cross-section.

10. **(original)** The compressor according to claim 8, wherein each tube is cylindrical in cross-section.

11. **(original)** The compressor according to claim 8, wherein the tubes are spaced from the first cooling chamber by a predetermined distance.

12. **(original)** The compressor according to claim 2, wherein the gas is one of air and hydrogen.

13. **(currently amended)** The compressor according to claim 1, wherein the cooling medium is divided into two flows so as to simultaneously flow ~~flowed~~ into the first cooling chamber and the medium passage ~~so as to be divided into two flows~~.

14. **(original)** The compressor according to claim 13, wherein the medium passage is arranged in such a manner that the gas passage does not adjoin the first cooling chamber.

15. **(original)** The compressor according to claim 13, wherein the medium passage is arranged in such a manner that the gas passage partially adjoins the first cooling chamber.

16. **(original)** The compressor according to claim 13, further comprising an electric motor arranged in the compressor and a motor cooling member that covers the electric motor for cooling the electric motor, power for driving the compressor thereby to compress the gas in the compression chamber being supplied by the electric motor provided in the compressor, the cooling medium, which has flowed through the motor cooling member, being flowed into the first cooling chamber and the medium passage.

17. **(original)** The compressor according to claim 16, wherein the motor cooling member is a water jacket.

18. **(original)** The compressor according to claim 13, wherein the compressor compressed gas which is supplied to a fuel cell.

19. **(original)** The compressor according to claim 13, wherein the medium passage includes a plurality of branched tubes through which the cooling medium flows, the gas passage being provided by space outside the tubes in the second cooling chamber, a fin being arranged in the gas passage.

20. **(original)** The compressor according to claim 19, wherein each tube is flat in cross-section.

21. **(original)** The compressor according to claim 19, wherein each tube is cylindrical in cross-section.

22. **(original)** The compressor according to claim 19, wherein the tubes are spaced from the first cooling chamber by a predetermined distance.

23. **(original)** The compressor according to claim 13, wherein the gas is one of air and hydrogen.

24. **(canceled)**.